

# Prof. Andreas Zimmer, PhD

Institute of Molecular Psychiatry



Rheinische Friedrich-Wilhelms-Universität Bonn

Institute of Molecular Psychiatry, Director

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## Research Expertise

Prof. Zimmer and his groups are interested in the molecular mechanisms of neuropsychiatric disorders with a focus on addiction, pain and affective disorders, molecular biology of modulatory neurotransmitters, and the molecular biology of aging.

## Education / Training

Max Planck Institute for Biophysical Chemistry, Microbiology, PhD, 1989

Justus-Liebig Universität Giessen, Biology, Diploma, 1986

## Appointments / Positions Held

2006 - present

Professor of Molecular Psychiatry (W3), Director, Institute for Molecular Psychiatry, University of Bonn

2005 - 2006

Professor of Cell Biology (W3), University of Bielefeld

1999 - 2005

Professor for Molecular Neurobiology (C3), University of Bonn

1997 - 1999

Adjunct Professor, Department of Pharmacology, Georgetown University, Medical School, USA

1997 - 2000

Research Fellow, National Institute of Mental Health, USA

1995 - 1997

Visiting Research Fellow, National Institute of Mental Health, USA

1991 - 1995

Visiting Associate, National Institute of Mental Health, USA

1991 - 2000

Section Head, National Institute of Mental Health, USA

1989 - 1991

Postdoctoral researcher, DFG-Fellow, National Institute of Mental Health, USA

## Honors / Awards

2000

U.S. Department of Health and Human Services Special Act or Service Award

1990 - 1992

DFG-Fellow

1987 - 1989

Max-Planck-Fellow

1989

PhD thesis awarded 'summa cum laude'

## 10 Most Relevant Publications for Prof. Andreas Zimmer

1. Miró X, Meier S, Dreisow ML, Frank J, Strohmaier J, Breuer R, Schmäl C, Albayram O, Pardo-Olmedilla MT, Mühleisen TW, Degenhardt FA, Mattheisen M, Reinhard I, Bilkei-Gorzo A, Cichon S, Seidenbecher C, Rietschel M, Nöthen MM, Zimmer A. (2012). Studies in humans and mice implicate neurocan in the etiology of mania. *Am J Psychiatry*, 169(9):982-90.
2. Gertsch J, Leonti M, Raduner S, Racz I, Chen JZ, Xie XQ, Altmann KH, Karsak M, Zimmer A. 2008. Beta-caryophyllene is a dietary cannabinoid. *Proc Natl Acad Sci U S A* 105: 9099-104.
3. Karsak M, Gaffal E, Date R, Wang-Eckhardt L, Rehnelt J, Petrosino S, Starowicz K, Steuder R, Schlicker E, Cravatt B, Mechoulam R, Buettner R, Werner S, Di Marzo V, Tuting T\*, Zimmer A\*. 2007. Attenuation of allergic contact dermatitis through the endocannabinoid system. *Science* 316: 1494-7.
4. Bilkei-Gorzo A, Racz I, Valverde O, Otto M, Michel K, Sastre M, Zimmer A. 2005. Early age-related cognitive impairment in mice lacking cannabinoid CB1 receptors. *Proc Natl Acad Sci U S A* 102: 15670-5.
5. Nadeau JH, Balling R, Barsh G, Beier D, Brown SD, Bucan M, Camper S, Carlson G, Copeland N, Eppig J, Fletcher C, Frankel WN, Ganten D, Goldowitz D, Goodnow C, Guenet JL, Hicks G, Hrabe de Angelis M, Jackson I, Jacob HJ, Jenkins N, Johnson D, Justice M, Kay S, Kingsley D, Lehrach H, Magnuson T, Meisler M, Poustka A, Rinchik EM, Rossant J, Russell LB, Schimenti J, Shiroishi T, Skarnes WC, Soriano P, Stanford W, Takahashi JS, Wurst W, Zimmer A. 2001. Sequence interpretation. Functional annotation of mouse genome sequences. *Science* 291: 1251-5.
6. Zimmer A, Zimmer AM, Hohmann AG, Herkenham M, Bonner TI. 1999. Increased mortality, hypoactivity, and hypoalgesia in cannabinoid CB1 receptor knockout mice. *Proc Natl Acad Sci U S A* 96: 5780-5.
7. Hahn H, Wojnowski L, Zimmer AM, Hall J, Miller G, Zimmer A. 1998. Rhabdomyosarcomas and radiation hypersensitivity in a mouse model of Gorlin syndrome. *Nat Med* 4: 619-22.
8. Wojnowski L, Zimmer AM, Beck TW, Hahn H, Bernal R, Rapp UR, Zimmer A. 1997. Endothelial apoptosis in Braf-deficient mice. *Nat Genet* 16: 293-7.
9. König M, Zimmer AM, Steiner H, Holmes PV, Crawley JN, Brownstein MJ, Zimmer A. 1996. Pain responses, anxiety and aggression in mice deficient in pre-proenkephalin. *Nature* 383: 535-8.
10. Zimmer A, Gruss P. 1989. Production of chimaeric mice containing embryonic stem (ES) cells carrying a homeobox Hox 1.1 allele mutated by homologous recombination. *Nature* 338: 150-3.

\*These authors contributed equally